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## ABSTRACT OF THE DISCLOSURE

The object of the present invention is to provide electrical equipment for mounting on vehicles and electrical machines having superior rust-prevention film, which makes it possible to prevent vehicles from generating red rust even if outer surface of magnetic core housing of the vehicle is damaged by bouncing a stone and the like during running, and also to provide manufacturing methods of the same.

The present invention relates to an electric equipment for mounting on vehicles; wherein any of outer surface and surface exposed to outward of magnetic core housing is coated sequentially with a metal plated layer or an alkali zinc plated layer, chromate film or zinc phosphate film, and organic resin coating; and a rotary electric machines using same; an electromagnetic switches using same; a starter for internal combustion engine using same; and manufacturing methods for them.